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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,130	01/28/2004	Robert A. Cochran	200210226-1	4298
22879 7590 03/19/2009 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			EXAMINER	
			COULTER, KENNETH R	
	NS, CO 80527-2400		ART UNIT	PAPER NUMBER
			2441	
			NOTIFICATION DATE	DELIVERY MODE
			03/19/2009	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/767,130	COCHRAN, ROBERT A.			
Office Action Summary	Examiner	Art Unit			
	Kenneth R. Coulter	2441			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 28 Ja	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-33 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-33 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or  Application Papers  9) ☐ The specification is objected to by the Examine  10) ☐ The drawing(s) filed on is/are: a) ☐ access applicant may not request that any objection to the original description.	vn from consideration. r election requirement. r. epted or b)  objected to by the B				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 7/20/04.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ite			

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 10 – 33 are rejected under 35 USC 101 because the claimed invention, in light of the specification (for example on page 8 (paragraph 24)), encompasses non-statutory subject matter since such reads on (encompasses) software or program per se' (In re Beauregard (CAFC) 35 USPQ2d 1383) and MPEP 2106 (new EXAMINATION GUIDELINES FOR COMPUTER-RELATED INVENTIONS). Even though drafted as "A method", each of the recited elements encompass their software or program per se' equivalent (i.e., a client such as a Netscape Web Browser and/or a server such as Apache are each software devices and yet phrased as a client and a server); thus, the whole of the method encompasses pure software or program per se'; unlike "A method executing on <a href="hardware">hardware</a>". Also, while a hardware device claim, with functional acts, may inherently encompass a corresponding method, the same does not hold in the reverse since a corresponding method is broader in scope and can encompass a scope void of any hardware.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 – 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Laurent et al. (U.S. Pat. No. 7,222,176) (Apparatus and Method for Using Storage Domains for Controlling Data in Storage Area Networks).

1.1 Regarding claim 1, Laurent discloses a storage network, comprising:

a plurality of storage cells, at least one storage cell including physical storage media and a storage media controller that controls data transfer operations with the storage media (Abstract; Figs. 2, 3, 4; col. 1, lines 8 – 13; col. 3, lines 29 – 40 "Storage Domain Server");

a plurality of host computers configurable to execute write operations to at least one storage cell; at least one write control server that regulates the write operations of one or more of the plurality of host computers (Figs. 2, 3, 4; col. 3, lines 29 - 40; col. 4, lines 38 - 48); and

a communication network that provides communication connections between the storage cells, the host computers, and the write control server (Figs. 2, 3, 4; Abstract).

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1.2 Per claim 2, Laurent teaches the storage network of claim 1, wherein the plurality of storage cells are geographically distributed (Abstract "regardless of physical location"; col. 4, line 54 - col. 5, line 9; col. 6, lines 54 - 62).

- 1.3 Regarding claim 3, Laurent discloses the storage network of claim 1, wherein at least one of the plurality of host computers executes write operations to store data in a primary storage unit (Figs. 2, 3, 4; col. 1, lines 8 13; col. 3, lines 29 40).
- 1.4 Per claim 4, Laurent teaches the storage network of claim 3, wherein data written to the primary storage unit is replicated to a secondary storage unit (col. 11, lines 41 59 "mirror MS 1" "mirror MS 2").
- 1.5 Regarding claim 5, Laurent discloses the storage network of claim 1, wherein the write control server implements a write permission queue to regulate write operations of the host computers (Abstract; col. 3, lines 29 40 "resources allocated to the host by the storage administrator"; col. 3, line 59 col. 4, line 9; col. 9, lines 54 62).
- 1.6 Per claim 6, Laurent teaches the storage network of claim 5, wherein the write control server grants write permission to only a single host computer in the write permission queue at any point in time (Abstract; Fig. 3; col. 5, lines 51 64; col. 9, lines 54 62).

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- 1.7 Regarding claim 7, Laurent discloses the storage network of claim 5, wherein: the write control server grants write permission to a plurality of the host computers in the write permission queue at any point in time; and the write control server maintains a write permission log (Abstract; col. 3, lines 29 40; col. 3, line 59 col. 4, line 9; col. 5, lines 51 64; col. 9, lines 54 62).
- 1.8 Per claim 8, Laurent teaches the storage network of claim 5, wherein: host computers submit write requests to the write control server; and the write control server implements a reverse handicapping routine when positioning the write requests in the write permission queue (Abstract; col. 3, lines 29 40; col. 3, line 59 col. 4, line 9; col. 5, lines 51 64; col. 9, lines 54 62).
- 1.9 Regarding claim 9, Laurent discloses the storage network of claim 8, wherein the reverse handicapping routine delays incoming write requests to compensate for an estimated travel time from a host computer to the write control server (col. 3, lines 29 40; col. 3, line 59 col. 4, line 9; col. 5, lines 51 64; col. 9, lines 54 62).
- 1.10 Regarding claims 10 33, the rejection of claims 1 9 under 35 USC 102(e) (paragraphs 1.1 1.9 above) applies fully.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth R. Coulter whose telephone number is 571 272-3879. The examiner can normally be reached on M - F, 7:30 am - 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kenneth R Coulter/ Primary Examiner, Art Unit 2441

/KRC/